

# Genes Responding to Hypertrophy

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I	R	Function	Accession	Gene Name	Test	Hypertrophy Reference
↑		metabolism	AF093677	ATP Synthase A chain	2	O'Brien, 1999
↑		receptor	AI507186	Vasopressin Receptor	2	Feener, 1995
↑		secreted	AI325080	Atrial Natriuretic Factor Precursor	M	McKenzie, 1986
↑		secreted	AI325352	Natriuretic peptide precursor type B, BNP	2	King, 1998
↑		secreted	U65016	TGF alpha	M	
↑		secreted	X04017	SPARC, Cysteine-rich Glycoprotein	M	Engelmann, 1996
↑		secreted	X07486	Lipocortin I / annexin I	B	Jans, 1998
↑		signaling	AA016424	HTF, hepatocarcinogenesis-related transcription factor	2	
↑		signaling	W97233	Protein Kinase C binding protein Beta	B	Yamazaki, 1999
↑		structural	W11554	Alpha Actin, Vascular Smooth Muscle	2	Nemenoff, 1998
↑		unknown/EST	AA032794	MAGE-D1 tumor antigen	B	
↑		unknown/EST	AA462435	No Homology	B	
↑		unknown/EST	AI587816	No Homology	2	
↑		unknown/EST	W85631	No Homology	2	
↑		unknown/EST	AW186581	No Homology	2	
↓		metabolism	AA118707	ATP Synthase D chain	2	O'Brien, 1999
↓		metabolism	AI326657	Carbonyl Reductase	2	
↓		metabolism	W13055	Fructose-Bisphosphate Aldolase B	2	
↓		protein synthesis	AA466527	Mitochondrial - 16S rRNA	2	Meerson, 1983
↓		protein synthesis	X00525	28S rRNA	2	Meerson, 1983
↓		receptor	AA023625	Estrogen Receptor	2	Pelzer, 1997
↓		receptor	AI506146	EphA1, type A-like Ephrin Receptor	2	
↓		secreted	AA118925	Plasminogen Activator Inhibitor 2	2	Feener, 1995
↓		secreted	AJ011413	Serum Albumin	2	
↓		signaling	AA690675	pip92, Immediate Early Gene	2	
↓		signaling	AA914128	Endothelin converting enzyme 2	B	Suzuki, 1991
↓		signaling	AI326434	Catechol O-Methyltransferase, Membrane-Bound	2	Krakoff, 1968
↓		structural	AU017121	Desmoplakin I	2	Wang, 1999
↓		unknown/EST	AA030249	CGI-17	2	
↓		unknown/EST	AA277407	No Homology	2	
↓		unknown/EST	AW186582	No Homology	2	
↓		unknown/EST	W17702	No Homology	B	
↑ ↓		metabolism	AI507074	Sterol 12 Alpha Hydroxylase	M	
↑ ↓		metabolism	AA856045	Mitochondrial Long-Chain Enoyl-CoA Hydratase	M	Thurich, 1999
↑ ↓		receptor	L21707	MRK, Receptor Tyrosine Kinase	M	
↑ ↓		signaling	AA015170	Id1, helix-loop-helix DNA binding protein regulator	M	
↑ ↓		signaling	AA023709	JAK3, protein tyrosine kinase	B	Kunisada, 1998
↑ ↓		structural	AA034719	Alpha-Internexin, neuronal intermediate filament protein	M	
↓ ↑		metabolism	AA137552	Electron-Transfer-Flavoprotein, beta polypeptide	M	Barger, 1999
↓ ↑		metabolism	AF093677	Mitochondrial ATP Synthase	M	Thurich, 1999
↓ ↑		metabolism	AA272442	NADH Dehydrogenase 6	B	Thurich, 1999
↓ ↑		receptor	AI594647	Similar to Activin Receptor-like Kinase or TGF-Beta Type I Receptor	M	
↓ ↑		secreted	U71085	Insulin-like Growth Factor II (IGF-II)	M	Vetter, 1988
↓ ↑		signaling	AI322734	MEK kinase	M	Ramirez, 1997
↓ ↑		unknown/EST	AA177811	No Homology	M	
↓ ↑		unknown/EST	AA462451	No Homology	M	
↓ ↑		unknown/EST	AF035814	BEC1	M	
↓ ↑		metabolism	AI303536	Cytochrome C Oxidase Polypeptide I	M	Xia, 1997
↓ ↑		protein synthesis	AA466622	Oligosaccharyltransferase	M	
↓ ↑		unknown/EST	AA027741	No Homology	M	
↓ ↑		unknown/EST	W13008	No Homology	M	
↓ ↑		unknown/EST	AA003309	No Homology	M	
↓ ↑		unknown/EST	AA462432	No Homology	M	
↓ ↑		unknown/EST	AA537226	No Homology	M	
↓ ↑		unknown/EST	W13012	No Homology	M	

2 =differs by 2 SD on 2 or more arrays for both ISO and AII

M = shows change in mean expression upon regression of hypertrophy

B = expression change identified through both tests